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PATENT TRADEMARK OFFICE
Atty. Docket: 0100024.0523741

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant: Fiona C. Buchanan, et al. : Paper No.:
Serial No. 10/814,760 : Group Art Unit:
Filed: March 31, 2004 : Examiner:
For: CRH AND POMC EFFECTS ON ANIMAL GROWTH

INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

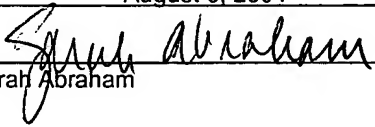
Dear Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, Applicant herewith submits certain patent references and other information, which the Patent and Trademark Office may wish to consider in examining the above-identified application. The references are provided below, and are also listed on the attached Form PTO-1449.

U.S. Patent Documents	Publication Date	Patentee or Applicant
Foreign Patent Documents	Publication Date	Patentee or Applicant
Non-Patent Literature Documents		
BAGLEY C.P., et al. "Growth and Sexual Characteristics of Sucking Beef Calves as Influenced by Age at Castration and Growth Implants," J. Anim. Sci. 67: 1258-1264 (1989).		
BARENDSE W., et al., "A Medium Density Genetic Linkage Map of The Bovine Genome," Mammalian Genome 8: 21-28 (1997).		
BUCHANAN F.C., et al. "Two QTLs for Growth Map to Bovine Chromosome 14," 27 th International Conference on Animal Genetics, Minneapolis, Minnesota (July 22-26, 2000).		

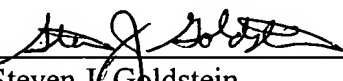
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- BUCHANAN F.C., et al., "Association of A Missense Mutation in The Bovine Leptin Gene with Carcass Fat Content and Leptin mRNA levels," *Genet. Sci. Evol.* 34: 105-116 (2002).
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- BUCHANAN F.C., et al., "A Corticotrophin-Releasing Hormone Polymorphism Associated With Post-Natal Growth in Beef Cattle," *Proceedings of the 7th World Congress on Genetics Applied to Livestock Production*, CD-ROM communication no. 11-32 (2002 Paper).
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- DUNN A.J., et al., "Physiological and Behavioral Responses to Corticotropin-Releasing Factor Administration: Is CRF a Mediator of Anxiety or Stress Responses?" *Brain Research Reviews* 15: 71-100 (1990).
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- GROBET L., et al., "Molecular Definition of An Allelic Series of Mutations Disrupting the Myostatin Function and Causing Double-Muscling in Cattle," *Mammalian Genome* 9: 210-213 (1998).
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- HOUSEKNECHT K.L., et al. "The Biology of Leptin: A Review," *J. Anim. Sci.* 76: 1405-1420 (1998).
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- KRESS D. D., et al., "Beef Sire Expected Progeny Differences Calculated By Three Methods," *J. Anim. Sci.* 44: 195-202 (1977).
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- LIU H-X, et al., "Exonic Splicing Enhancer Motif Recognized by Human SC35 Under Splicing Conditions," *Molecular and Cellular Biology* 20: 1063-1071 (2000).
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- LIU H-X, et al., "A Mechanism For Exon Skipping Caused By Nonsense or Missense Mutations In BRCA1 and Other Genes," *Nat Genet.* 27: 55-58 (2001).
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- MARSH D.J., et al., "Response of Melanocortin-4 Receptor-Deficient Mice to Anorectic and Orexigenic Peptides," *Nat. Genet* 21: 119-122 (1999).
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- PRITCHARD L.E., et al., "Pro-Opiomelanocortin Processing in The Hypothalamus: Impact on Melanocortin Signaling and Obesity," *J. Endocrinol.* 172: 411-421 (2002).
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- ROCHE P.J., et al., "Nucleotide Sequence of The Gene Coding for Ovine Corticotropin-Releasing Factor and Regulation of Its mRNA Levels by Glucocorticoids," *Gene* 71: 421-431 (1988).
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- SCHMUTZ S.M., et al., "Development of the Canadian Beef Reference Herd for Gene Mapping Studies," *Theriogenology* 55: 963-972 (2001).
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- SAS, *SAS/STAT User's Guide (Release 8.02)*, SAS Inst. Inc., Cary, NC (1998)
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- SCHUMANN F.J., et al., "Prophylactic Tilmicosin Medication of Feedlot Calves At Arrival," *Can. Vet. J.* 31: 285-288 (1990).
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- SHARPE P.M., et al., "Glucocorticoid Status in Growth, in: Buttery P.J. Haynes N.B., Lindsay D.B. (Eds.), "Control and Manipulation of Animal Growth, Butterworths, London: 207-222 (1986).
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- SHIBAHARA S., et al., "Isolation and Sequence Analysis of The Human Corticotropin-Releasing Factor Precursor Gene," *EMBO J.* 2: 775-779 (1983).
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- SZABO G., et al., "A Deletion in The Myostatis Gene Causes The Compact (Cmpt) Hypermuscular Mutation In Mice," *Mammalian Genome* 9: 671-672 (1998).
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- THUE T.D., et al., "A SNP in The Cattle MC4R Gene is Used to Map MC4R to BTA 24," *Anim. Genet.* 32: 390-391 (2001).
-
- THUE T.D., et al., "Linkage Mapping of POMC to Bovine Chromosome 11," *Anim. Genet.* 34: 149 (2003).
-

Copies of non-patent literature cited are provided herewith. A copy of the cited reference "SAS/STAT User's Guide" was not available. No representation is made or intended that a prior art search has been made or that no better art than the listed is available. It is respectfully requested that the information be considered by the Examiner and made of record in the present application.

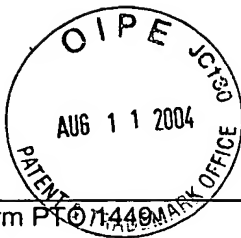
<p align="center"><u>CERTIFICATE OF MAILING</u></p> <p>I hereby certify that a copy of this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop MISSING PARTS, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p align="center">August 6, 2004</p> <p> _____ Sarah Abraham</p>
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Respectfully submitted,

Fiona C. Buchanan, et al.

By 

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Customer No. 26874
PATENT TRADEMARK OFFICE

Substitute for Form PTO 1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application No.	10/814,760
Filing Date	03/31/2004
First Named Inventor	BUCHANAN, Fiona C.
Art Unit	
Examiner Name	

Sheet	1	of	2	Attorney Docket No.	0100024.0523741
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U.S. PATENT DOCUMENTS

Examiner initials	Cite No.	DOCUMENT NUMBER	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind code ² (if known)			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
		BAGLEY C.P., et al. "Growth and Sexual Characteristics of Sucking Beef Calves as Influenced by Age at Castration and Growth Implants," J. Anim. Sci. 67: 1258-1264 (1989).	
		BARENDSE W., et al., "A Medium Density Genetic Linkage Map of The Bovine Genome," Mammalian Genome 8: 21-28 (1997).	
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		BUCHANAN F.C., et al., "Association of A Missense Mutation in The Bovine Leptin Gene with Carcass Fat Content and Leptin mRNA levels," Genet. Sci. Evol. 34: 105-116 (2002).	SEC
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application No.	10/814,760
				Filing Date	03/31/2004
				First Named Inventor	BUCHANAN, Fiona C.
				Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket No.	0100024.0523741

		HOUSEKNECHT K.L., et al. "The Biology of Leptin: A Review," J. Anim. Sci. 76: 1405-1420 (1998).	SEC
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